

APPLICANT FACS/MILE OF FORM PTO-1449 REV. 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. UIZ-003DVCN	SERIAL NO. 09/541,873 TC
PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Pearson, James P. et al.	GROUP 3746 165
AUG 07 2000 PATENT & TRADEMARK OFFICE		FILING DATE April 3, 2000	

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		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

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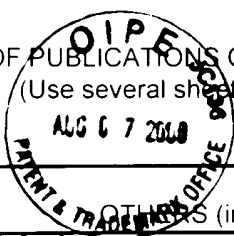
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
BT	AA	WO 92/18614	10/92	PCT			

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BT	AB	Bainton, et al., "A general role for the <i>lux</i> autoinducer in bacterial cell signalling: control of antibiotic biosynthesis in <i>Erwinia</i> ," <i>Gene</i> , 1992, vol. 116, 87-91.
BT	AC	Bainton, et al., "N-(3-Oxohexanoyl)-L-homoserine lactose regulates carbapenem antibiotic production in <i>Erwinia carotovora</i> ," <i>Biochemistry Journal</i> , 1992, vol. 288, 997-1004.
BT	AD	Bever, et al., "Molecular Characterization and Nucleotide Sequence of the <i>Pseudomonas aeruginosa</i> Elastase Structural Gene," <i>Journal of Bacteriology</i> , 1988, vol. 170, no. 9, 4309-4314.
BT	AE	Cao, et al., "Biosynthesis and Stereochemistry of the Autoinducer Controlling Luminescence in <i>Vibrio harveyi</i> ," <i>Journal of Bacteriology</i> , 1993, vol. 175, no. 12, 3856-3862.
BT	AF	Cao, et al., "Purification and Structural Identification of an Autoinducer for the Luminescence System of <i>Vibrio harveyi</i> ," <i>Journal of Biological Chemistry</i> , 1989, vol. 264, no. 36, 21670-21676.
BT	AG	Choi, et al., "Genetic Dissection of DNA Binding and Luminescence Gene Activation by the <i>Vibrio fischeri</i> LuxR Protein," <i>Journal of Bacteriology</i> , 1992, vol. 174, no. 12, 4064-4069.
BT	AH	Eberhard, et al., "Analogues of the autoinducer of bioluminescence in <i>Vibrio fischeri</i> ," <i>Archives of Microbiology</i> , 1986, vol. 146, no. 35, 35-40.
BT	AI	Eberhard, et al., "Structural Identification of Autoinducer of <i>Photobacterium fischeri</i> Luciferase," <i>Biochemistry</i> , 1981, vol. 20, 2444-2449.
BT	AJ	Eberhard, et al., "Synthesis of the lux gene autoinducer in <i>Vibrio fischeri</i> is positively autoregulated," <i>Archives of Microbiology</i> , 1991, vol. 155, 294-297.
BT	AK	Gambello and Iglewski, "Cloning and Characterization of the <i>Pseudomonas aeruginosa lasR</i> Gene, a Transcriptional Activator of Elastase Expression," <i>Journal of Bacteriology</i> , 1991, vol. 173, no. 9, 3000-3009.
BT	AL	Goswami, et al., "Microbial Hydroxylation of Quadron to 8a-Hydroxyquadron," <i>Journal of Natural Products</i> , 1987, vol. 50, no. 1, 49-54.
BT	AM	Hoiby, "Pseudomonas Aeruginosa Infection in Cystic Fibrosis," <i>Acta. Path. Microbiol. Scand. Sect. B</i> , 1974, vol. 82, 551-558.
BT	AN	Iglewski and Kabat, "NAD-Dependent Inhibition of Protein Synthesis by <i>Pseudomonas aeruginosa</i> Toxin," <i>PNAS</i> , 1975, vol. 72, 2284-2288.
BT	AO	Iglewski, et al., "Pseudomonas aeruginosa exoenzyme S: An adenosine diphosphate ribosyltransferase distinct from toxin A," <i>PNAS</i> 1978, vol. 75, no. 7, 3211-3215.
BT	AP	Jones, et al., "The lux autoinducer regulates the production of exoenzyme virulence in <i>Erwinia carotovora</i> and <i>Pseudomonas aeruginosa</i> ," <i>EMBO Journal</i> , 1993, vol. 12, no. 6, 2477-2482.
BT	AQ	Kaplan and Greenberg, "Diffusion of Autoinducer Is Involved in Regulation of the <i>Vibrio fischeri</i> Luminescence System," <i>Journal of Bacteriology</i> , 1985, vol. 163, 1210-1214.

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7	BA	Kessler and Safrin, "Synthesis, Processing and Transport of <i>Pseudomonas aeruginosa</i> Elastase," <i>Journal of Bacteriology</i> , 1988, vol. 170, no. 11, 5241-5247.
BT	BB	Meighen, "Molecular Biology of Bacterial Bioluminescence," <i>Microbiological Reviews</i> , 1991, vol. 55, no. 1, 123-142.
BT	BC	Nicas and Iglewski, "The Contribution of exoproducts to virulence of <i>Pseudomonas aeruginosa</i> ," <i>Canadian Journal of Microbiology</i> , 1985, vol. 31, no. 4, 387-392.
BT	BD	Passador, et al., "Expression of <i>Pseudomonas aeruginosa</i> Virulence Genes Requires Cell-to-Cell Communication," <i>Science</i> , 1993, vol. 260, 1127-1130.
BT	BE	Pearson, et al., "Structure of the autoinducer required for expression of <i>Pseudomonas aeruginosa</i> virulence genes," <i>PNAS USA</i> , 1994, vol. 91, no. 1, 197-201.
BT	BF	Piper, et al., "Conjugation factor of <i>Agrobacterium tumefaciens</i> regulates Ti plasmid transfer by autoinduction," <i>Nature</i> , 1993, vol. 362, 448-450.
BT	BG	Pirhonen, et al., "A small diffusible signal molecule is responsible for the global control of virulence and exoenzyme production in the plant pathogen <i>Erwinia carotovora</i> ," <i>EMBO Journal</i> , 1993, vol. 12, no. 6, 2467-2476.
BT	BH	Railing, et al., "Growth rate-dependent regulation of RNA polymerase synthesis in <i>Escherichia coli</i> ," <i>Mol. Gen. Genet.</i> , 1985, vol. 201, 379-386.
BT	BI	Reynolds, et al., " <i>Pseudomonas aeruginosa</i> Infections: Persisting Problems and Current Research to Find New Therapies," <i>Annals of Internal Medicine</i> , 1975, vol. 82, no. 6, 819-831.
BT	BJ	Stewart, et al., "Shedding New Light On Food Microbiology," <i>ASM News</i> , 1993, vol. 59, no. 5, 241-247.
BT	BK	Wierenga and Skulnick, "General, Efficient, One-Step Synthesis of β -Keto Esters," <i>Journal of Organic Chemistry</i> , 1979, vol. 44, no. 2, 310-311.
BT	BL	Williams, et al., "Small molecule-mediated density-dependent control of gene expression in prokaryotes: Bioluminescence and the biosynthesis of carbapenem antibiotics," <i>FEMS Microbiology</i> , 1992, vol. 100, 161-168.
BT	BM	Zhang, et al., " <i>Agrobacterium</i> conjugation and gene regulation by N-acyl-L-homoserine lactones," <i>Nature</i> , 1993, vol. 362, 446-448.
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MS	C1	4,650,750	03/87	Giese	435	7	
MS	C2	4,709,016	11/87	Giese	530	389	
MS	C3	5,239,088	08/93	Hoffman et al.	549	321	
MS	C4	5,320,805	06/94	Kramer et al.	422	28	
MS	C5	5,536,750	07/96	DeSolms et al.	514	538	
MS	C6	5,591,872	01/97	Pearson et al.	549	321	
MS	C7	5,593,827	01/97	Bycroft et al.	435	6	
MS	C8	5,686,472	11/97	Anthony et al.	514	357	
MS	C9	6,020,121	02/2000	Bao et al.	435	4	

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							YES	NO
	C10	JP 58096079	06/83	Japan			Abstr.	
	C11	JP 60045568	03/85	Japan			Abstr.	
MS	C12	WO 92/18614	10/92	PCT				
MS	C13	WO 96/29392	09/96	PCT				
MS	C14	WO 97/27851	08/97	PCT				

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MS	C15	Allison, D.G. et al., "A staining technique for attached bacteria and its correlation to extracellular carbohydrate production," <i>J. Microbiol. Methods</i> , 2:93-99 (1984);
MS	C16	Allison, D.G. et al., "The role of polysaccharides in adhesion of freshwater bacteria," <i>J. Gen. Microbiol.</i> , 133:1319-1327 (1987);
MS	C17	Anwar, H. et al., "Dynamic interactions of biofilms on mucoid pseudomonas aeruginosa with tobramycin and piperacillin," <i>Antimicrob. Agents Chemother.</i> , 36:1208-1214 (1992);
MS	C18	Beck von Bodman, B.S. et al., "Capsular polysaccharide biosynthesis and pathogenicity in Erwinia carotovora," <i>J. Bacteriol.</i> , 177:5000-5008 (1995);
MS	C19	Boivin, J. et al., "Biofilms and biodeterioration. In Biodeterioration and biodegradation 8 (ed.) H.W. Rossmore, Elsevier Applied Science, London, p. 53-62 (1991);
MS	C20	Boyd, A. et al., "Sequence of the algL gene of pseudomonas aeruginosa and purification of its alginate lyase product," <i>Gene</i> , 131:1-8 (1993);
MS	C21	Boyd, A. et al., "Role of the alginate lyase in cell attachment of pseudomonas aeruginosa," <i>Appl. Environ. Microbiol.</i> , 60:2355-2359 (1994);
MS	C22	Brint, J.M. et al., "Synthesis of multiple exoproducts in pseudomonas aeruginosa is under the control of RH1R-Rh1I. Another set of regulators in strain PAO1 with homology to the autoinducer-responsive LuxR-LuxI family," <i>J. Bacteriol.</i> , 177:7155-7163 (1995);
MS	C23	Christensen, B.E. et al., "Physical and chemical properties of biofilms," In: Characklis, W.G. et al (eds.) Biofilms. John Wiley & Sons, New York, pp. 93-130 (1990);

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D1	Cohen-Bazire, G. et al., "Kinetic studies of pigment synthesis by non-sulfur purple bacteria," <i>J. cell. Comp. Physiol.</i> , 49:25-68 (1957);
D2	Costerton, J.W. et al., "Bacterial biofilms in nature and disease," <i>Ann. Rev. Microbiol.</i> , 41:435-464 (1987);
D3	Database Medline Express, US National Library of Medicine, (Bethesda, MD, USA) No. 9730387, C. Reimann et al. "The global activator GacA of <i>Pseudomonas aeruginosa</i> PAO positively controls the production of the autoinducer N-butyryl-homoserine lactone and the formation of the virulence factors pyocyanin, cyanide, and lipase" Abstract, <i>Molecular Microbiology</i> , April 1997, vol. 24, no. 2, pp. 309-319; ABSTRACT ONLY
D4	Davies, D.G. et al., "Exopolysaccharide production in biofilms. Substratum activation of alginate gene expression by <i>pseudomonas aeruginosa</i> ," <i>Appl. Environ. Microbiol.</i> , 59:1181-1186 (1993);
D5	Davies, D.G. et al., "Regulation of the alginate biosynthesis gene <i>algC</i> in <i>pseudomonas aeruginosa</i> during biofilm development in continuous culture," <i>Appl. Environ. Microbiol.</i> , 61:860-867 (1995);
D6	Dempsey, M.J., "Marine bacterial fouling: A scanning electron microscope study," <i>Marine Biol.</i> , 61:305-315 (1981);
D7	Finlay, B.B. et al., "Common themes in microbial pathogenicity," <i>Microbiol. Rev.</i> , 53:210-230 (1989);
D8	Fletcher, M. "Adherence of marine micro-organisms to smooth surfaces," pp. 347-371. In Beachey, E.H. (ed.), <i>Bacterial Adherence (receptors and recognition, series 3 vol. 6.)</i> Chapman & Hall, London (1980);
D9	Floodgate, G.D. "The mechanism of bacterial attachment to detritus in aquatic systems," <i>Memorie dell' Istituto Italiano di idrobiologica Dott. Carco di Marchi</i> 29 (suppl.), 309-323 (1972);
D10	Fuqua, W.C. et al. "Quorum sensing in bacteria: The luxR-luxI family of cell density-responsive transcriptional regulators," <i>J. Bacteriol.</i> , 176:269-275 (1994);
D11	Gacesa, P., "Alginate-modifying-enzymes. A proposed unified mechanism of action for the lyases and epimerases," <i>FEBS Lett.</i> , 212:199-202 (1987);
D12	Gambello, M.J. et al., "LasR of <i>pseudomonas aeruginosa</i> is a transcriptional activator of the alkaline protease gene (<i>apr</i>) and an enhancer of exotoxin A expression," <i>Infect. Immun.</i> , 61:1180-1184 (1993);
D13	Geesey, G.G. et al., "Microscopic examination of natural sessile bacterial populations from Alpine streams," <i>Can. J. Microbiol.</i> , 23:1733-1736 (1997);

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R.P. Swartz

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OK	E1	Givskov, M. et al., "Eukaryotic interference with homoserine lactone-mediated prokaryotic signalling," <i>J. Bacteriol.</i> , <u>178</u> :6618-6622 (1996);
OK	E2	Holloway, B.W., "Genetic recombination in pseudomonas aeruginosa," <i>J. Gen. Microbiol.</i> , <u>13</u> :572-581 (1955);
OK	E3	Hengge-Atonis, R., "Survival of hunger and stress: The role of rpoS in early stationary phase regulation in escherichia coli," <i>Cell</i> , <u>72</u> :165-168 (1993);
OK	E4	Jones, H.C. et al., "Electron microscopic study of a slime layer," <i>J. Bacteriol.</i> , <u>99</u> :316-325 (1969);
OK	E5	Khoury, A.E. et al., "Prevention and control of bacterial infections associated with medical devices," <i>ASAIO J.</i> , <u>38</u> :174-178 (1992);
OK	E6	Kintner, P.K.III, et al., "Carbohydrate interference and its correction in pectin analysis using the m-hydroxydiphenyl method," <i>J. Food Sci.</i> , <u>47</u> :756-760 (1982);
OK	E7	Latifi, A. et al., "Multiple homologues of luxR and luxI control expression of virulence determinants and secondary metabolites through quorum sensing in pseudomonas aeruginosa PAO1," <i>Mol. Microbiol.</i> , <u>17</u> :333-344 (1995);
OK	E8	Latifi, A. et al., "A hierarchical quorum sensing cascade in pseudomonas aeruginosa links the transcriptional activators lasR and RhIR (VsmR) to expression of the stationary-phase sigma factor RpoS," <i>Mol. Microbiol.</i> , <u>21</u> :1137-1146 (1996);
OK	E9	Nichols, W.W. et al., "The penetration of antibiotics into aggregates of mucoid and nonmucoid pseudomonas aeruginosa," <i>J. Gen. Microbiol.</i> , <u>135</u> :1291-1303 (1989);
OK	E10	Ochsner, U.A., et al., "Autoinducer-mediated regulation of rhamnolipid biosurfactant synthesis in pseudomonas aeruginosa," <i>PNAS USA</i> , <u>92</u> :6424-6428 (1995);
OK	E11	Passador et al. "Functional Analysis of the Pseudomonas aeruginosa Autoinducer PAI" <i>Journal of Bacteriology</i> 178(20):5995-6000 (Oct 1996);
OK	E12	Pearson, J.P. et al., "A second N-acylhomoserine lactone signal produced by pseudomonas," <i>PNAS USA</i> , <u>92</u> :1490-1494 (1995);
OK	E13	Peterson, G.L., "A simplification of the protein assay method of Lowry et al. Which is more generally applicable," <i>Anal. Biochem.</i> , <u>83</u> :346-356 (1997);
OK	E14	Preiss, J. et al., "Alginate acid metabolism in bacteria. I. enzymatic formation of unsaturated oligo-saccharides and l-deoxy-L-erythro-5-hexoseulose uronic acid," <i>J Biol Chem</i> , <u>237</u> :309-316 (1962);
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Robson et al. "Bacterial N-acyl-homoserine-lactone-dependent signaling and its potential biotechnological applications" <i>Trends in Biotechnology</i> 15:458-464 (Nov 1997);
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Schripsema, J. et al., "Bacteriocin small of <i>Rhizobium leguminosarum</i> belongs to the class of N-acyl-L-homoserine Lactone molecules, known as autoinducers and as quorum sensing co-transcription factors," <i>J. Bacteriol.</i> 178:366-371 (1996);
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Sutherland, I.W. "Polysaccharides in the adhesion of marine and freshwater bacteria," p. 329-338. In R.C. W. Berkeley, et al. eds., <i>Microbial Adhesion to Surfaces</i> . Ellis Horwood, London (1980);
Swift, S. et al., "A novel strategy for the insolation of <i>lux/homologues</i> evidence for the widespread distribution of a LuxR:Lux1 superfamily in enteric bacteria," <i>Mol. Microbiol.</i> 10:511-520 (1993);
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Wallace, W.H. et al., "An algD-Bioluminescent reporter plasmid to monitor alginate production in biofilms," <i>Microb. Ecol.</i> 27:225-239 (1994);
Wardell, J.N. et al., <i>In</i> Microbes and surfaces. Symposia for the Society for General Microbiology. 34:351-378 (1983);
Winson, M.K. et al., "Multiple N-acyl-L-homoserine lactone signal molecules regulate production of virulence determinants and secondary metabolites in <i>Pseudomonas aeruginosa</i> ," <i>Proc. Natl. Acad. Sci. USA.</i> 92:9427-9431 (1995);
Zobell, C.E., "The effect of solid surfaces upon bacterial activity," <i>J. Bacteriol.</i> 46:39-56 (1943).

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